

KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.

Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/F.AGG/905-1299/2013-2014

Date: 13.08.2013

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
T.Dasarahalli Sub Division,
Bagalagunte, BBMP, Bangalore.

Name of the Project* : Improvements to Roads at 2nd Main 3rd Cross of Manjunatha
Nagara in Ward No.14.

Name of Contractor* : Mr.M.Rajashekar, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	94.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	80.3	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	64.2	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	38.3	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	10.2	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	1.3	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)		-

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

Venkat

XLSR

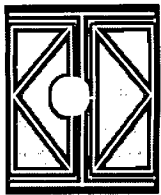


XLSR

(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

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ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ - 560 073



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Report No. : KTH/C.AGG/905-1298/2013-2014

Date: 13.08.2013

TEST REPORT ON AGGREGATE

(Coarse Aggregate)

Name of the Customer* : The Assistant Executive Engineer,
T Dasarahalli Sub division,
BBMP, Bangalore.

Name of the Project* : Improvement to Roads at 2nd Main, 3rd Cross of
Manjunatha Nagara in Ward No. 14.

Name of Contractor* : Mr.M Rajashekar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	85.3	85 to 100	95 to 100	
3	20	15.4	0 to 20	30 to 70	
4	12.5	2.6	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	13.51	Not specified
2	Elongation Index (%)	40	9.74	Not specified
3	Impact Value (%)	40	24.15	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

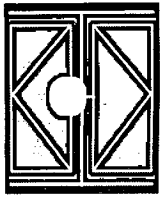
For KARNATAKA TEST HOUSE PVT. LTD.

Venkat
S. R. M.



Sreenivasa C
(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/905-1298a/2013-2014

Date: 13.08.2013

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
T Dasarahalli Sub division,
BBMP, Bangalore.

Name of the Project* : Improvement to Roads at 2nd Main, 3rd Cross of
Manjunatha Nagara in Ward No. 14.

Name of Contractor* : Mr.M Rajashekar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

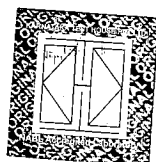
Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 20mm size Aggregate
2	20	88.4	85 to 100	95 to 100	
3	16	42.3	-	-	
4	10	4.8	0 to 20	25 to 55	
5	4.75	1.2	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	10.78	Not specified
2	Elongation Index (%)	20	13.54	Not specified
3	Crushing Value (%)	20	23.50	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

Verified


For KARNATAKA TEST HOUSE PVT. LTD.




(SREENIVASAN)
TECHNICAL MANAGER

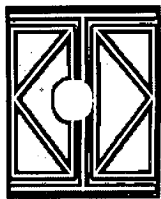

ಕರ್ನಾಟಕ ಪರೀಕ್ಷಾಶಾಲೆ ಪ್ರಾ.ಪಂ.ಸಂ.

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ಪರೀಕ್ಷಾ ಕಛೇರಿ, ಬೆಂಗಳೂರು - 560 073



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Report No. : KTH/ CEMENT /905-1300/2013-2014

Date: 18.08.2013

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
T.Dasarahalli Sub Division,
Bagalagunte, BBMP, Bangalore.

Name of the Project* : Improvements to Roads at 2nd Main 3rd Cross of Manjunatha
Nagara in Ward No.14.

Name of Contractor* : Mr.M.Rajashekar, Bangalore.

Source of Sample : Supplied by the Contractor.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 08.08.2013

Period of Test : 09.08.2013 to 16.08.2013

Technical Reference : IS: 4031(Part I-VI) 1988 (Reaffirmed-2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30.0%	Not specified	-
2	Initial setting time	162 minutes	Shall not be less than 30 minutes	P
3	Final setting time	250 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b. 168 ± 2h (7 days) c. 672 ± 4h (28 days)	29.45 MPa 41.07 MPa T.T.C	Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	P P -
5	Fineness (By Blaine's air permeability method)	340.81 m ² /kg	Shall not be less than 225 m ² /kg	P
6	Soundness (Le-chatlier's method)	0.98 mm	Shall not be more than 10 mm	P

P: Passes IS requirement

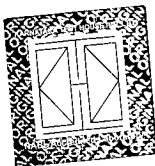
F: Fails IS requirement

T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Verified
S. R.

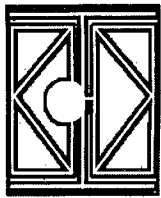


Sreenivasa C.
(SREENIVASA C.)
TECHNICAL MANAGER

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10.08.2013
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Report No.: KTH/ST/905-1301/2013-2014

Date: 13.08.2013

PHYSICAL TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
T.Dasarahalli Sub Division,
Bagalagunte, BBMP, Bangalore.

Name of the Project* : Improvements to Roads at 2nd Main 3rd Cross of Manjunatha
Nagara in Ward No.14.

Name of Contractor* : Mr.M.Rajashekar, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013

Nature of Sample* : Reinforcement steel – 8mm & 10mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985
(Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST :

Dia (mm)	8	10	Limits as per IS : 1786-2008, Gr. Fe 415
Weight / unit length (kg/m)	0.376	0.578	8mm – 0.367 Min 10mm – 0.574 Min
Yield Stress (N/mm ²)	517.52	535.03	500 Min
Tensile Strength (N/mm ²)	597.13	611.46	8% More than actual 0.2% proof stress but not less than 545 N/mm ²
% Elongation (on 5.65 √AG.L)	21.5	22.0	12.5 Min.

BEND TEST:

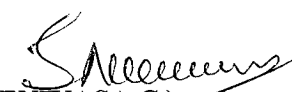
Sl. No.	Dia (mm)	Mandrel diameter	Observations
1.	8	3 dia	No cracks observed. Passes the test.
2.	10	3 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1.	8	5 dia	No cracks observed. Passes the test
2.	10	5 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.


(SREENIVASA.C.)
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